# Staged Magnetic Compression of FRC Targets *Helion Energy, (Redmond, WA)*

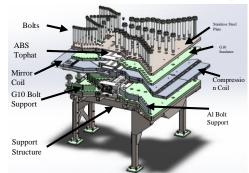


#### **Project Overview**

- Merge and compress FRC targets
- Develop high field drivers
- Increase scale and compression field of FRC compression beyond previous programs

## **Key Insights and Innovations**

- Showed confinement scaling (micro) and macro stability all scale as expected
- Repetitive high field magnets are a challenge, but were developed and implemented



## **Accomplishments and ARPA-E Impact**

- 8 Tesla Peak Fields
- D-D fusion neutrons
- Verified FRC Scaling
- 989 High energy FRC compression shots
- 7100 total shots
- < \$1/Joule per shot delivered driver energy</li>

1 Patent 9 Presentations and Publications

### **Future Plans**

- Larger scale and higher field systems
- Advanced fuels



